

Amendments to the Claims:

1. (Currently Amended) A method of controlling an electronic device, comprising the steps of:

detecting a state brain waves of a user;

~~determining whether, based on the detected state, the user is probably asleep;~~

~~determining whether, based on this state, the user is asleep;~~

in response to ~~determining that the user is probably asleep~~ detecting theta waves from the user, at least one of reducing a volume of sound output by the electronic device, reducing a quality of sound output by the electronic device, reducing a size of an image output by the electronic device, and reducing a quality of an image output by the electronic device;

in response to ~~determining that the user is asleep~~ detecting delta waves or a REM state, switching the electronic device to one of off and a hibernation mode of reduced power consumption.

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Previously Presented) A computer program enabling a programmable device to carry out a method as claimed in claim 1, wherein the computer program is stored on a computer readable medium, which when executed by a computer system, carries out the steps claimed in claim 1.

8. (Currently Amended) An electronic device, comprising:
a receiver for receiving, from a detector, a detection signal indicative
of a state of a user; and

a control unit which:

is able to use the receiver to receive the detection signal
from the detector,

~~determine whether, based on the received detection
signal, the user is probably asleep,~~

determine whether, based on the received detection
signal, the user is asleep, probably asleep, or awake,

switch the electronic device to a mode of reduced power
consumption in response to determining that the user is asleep,

in response to determining that the user is probably
asleep, controlling the electronic device to at least one of ~~reducing~~
~~reduce~~ a volume of sound output by the electronic device, ~~reducing~~
~~reduce~~ a quality of sound output by the electronic device, ~~reducing~~
~~reduce~~ a size of an image output by the electronic device, and ~~reducing~~
~~reduce~~ a quality of an image output by the electronic device, ~~and~~

~~switch the electronic device to a mode of reduced power
consumption in response to determining that the user is asleep.~~

9. (Cancelled)

10. (Previously Presented) The electronic device as claimed in claim 8,
it further including a motion detector.

11. (Previously Presented) The electronic device as claimed in claim 8,
further including:

an output means which generates at least one of an audio signal and a
display signal.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Previously Presented) An electronic device including a processor programmed to perform the steps claimed in claim 1.

18. (Previously Presented) The electronic device as claimed in claim 8, further including:

a brainwave detector which measures brainwaves of the user and generates the detection signal based on the detected brainwaves.

19. (Currently Amended) [[The]] An electronic device as ~~claimed in claim 18, wherein the comprising:~~

a brainwave detector which measures brainwaves of a user of the electronic device and generates a detection signal based on the detected brainwaves;

a receiver for receiving the detection signal from the brainwave detector, and

control unit which:

receives the detection signal from the receiver,

determines whether the user is probably asleep by identifying from the detection signal a first brainwave pattern that is indicative of at least one of relaxed with eyes closed, sleepy, already sleeping, or in a sleep transition; and,

determines whether the user is asleep by identifying a second brainwave pattern indicative of the user being in a deep sleep or REM sleep,

in response to determining that the user is probably asleep, controlling the electronic device to at least one of reducing a volume of sound output by the electronic device, reducing a quality of sound output by the electronic device, reducing a size of an image output by the electronic device, and reducing a quality of an image output by the electronic device, and

switch the electronic device to a mode of reduced power consumption in response to determining that the user is asleep.

20. (Previously Presented) The electronic device as claimed in claim 19, further including:

a motion detector which outputs a second detection signal based on detected motion; and,

wherein the control unit determines whether the user is probably asleep based on the brainwave detection signal and the motion detection signal, and determines whether the user is asleep based on both the brainwave detection signal and the motion detection signal.

21. (Currently Amended) The electronic device as claimed in claim 18 19, wherein the control unit determines whether the user is probably asleep based on whether the brainwave detection signal is indicative of theta or alpha waves and determines whether the user is asleep based on the brainwave detection signal being indicative of delta waves or REM sleep.

22. (Previously Presented) The electronic device as claimed in claim 8, further including a pressure sensor for generating the detection signal.

23. (New) The method as claimed in claim 1, further including:

determining whether movement has been determined for a predetermined period of time;

in response to no movement being detected for the predetermined period of time, at least one of reducing a volume of sound output by the electronic device, reducing a quality of sound output by the electronic device, reducing a size of an image output by the electronic device, and reducing a quality of an image output by the electronic device.